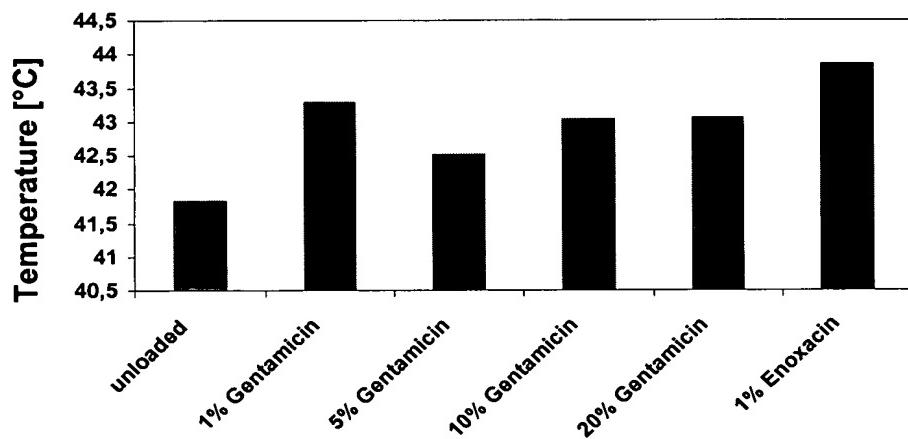


Figures

Figur 1: melting temperature of a thermoplastic multiblock copolymer of paradioxanone / caprolactone loaded with different drugs

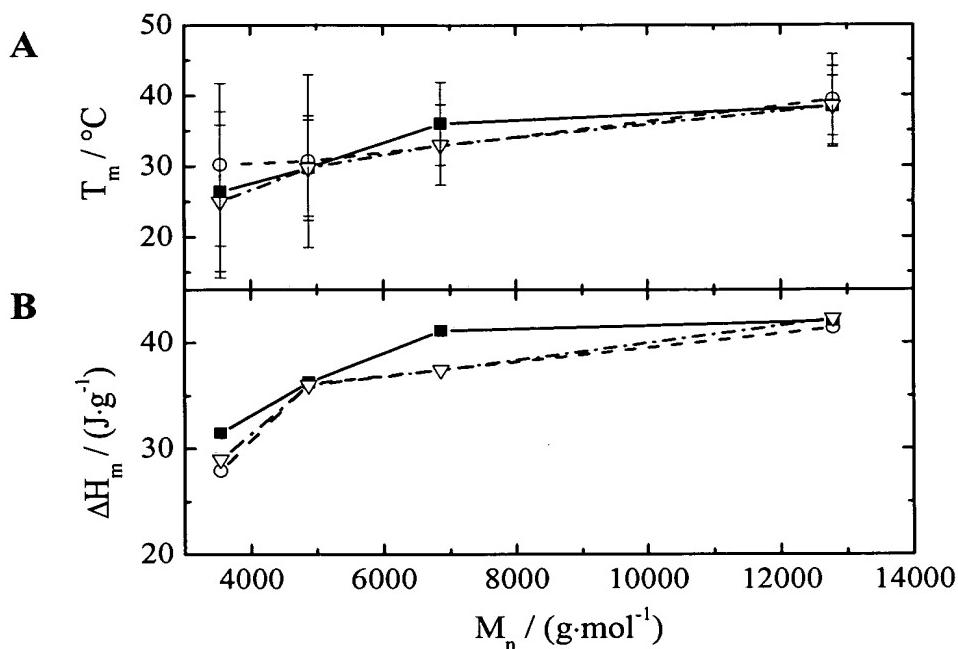
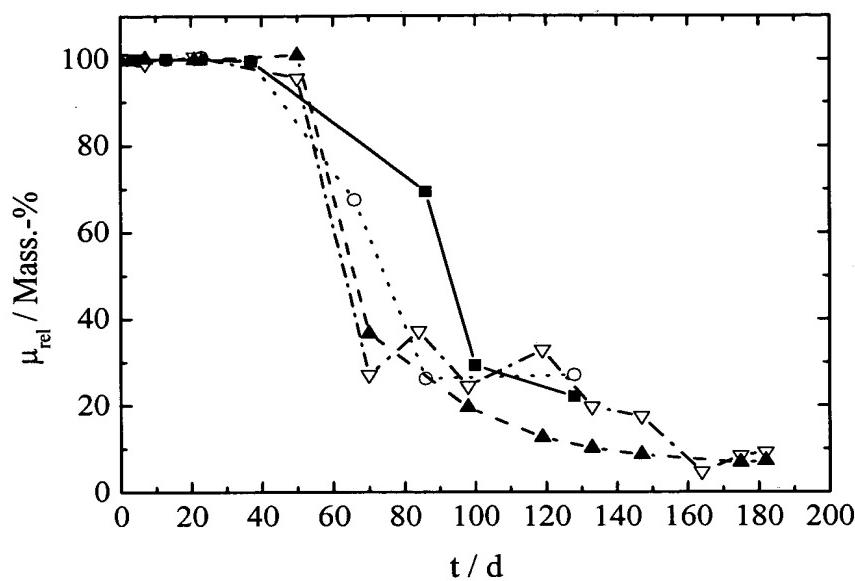


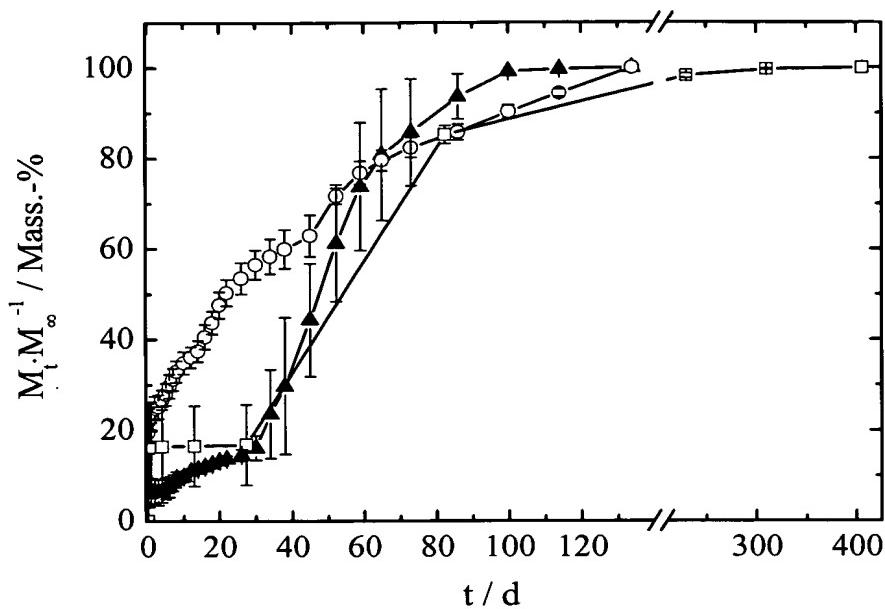
Figure 2 Thermal properties of N-CG networks with varying segment length with and without loaded Ethacridinlactate. The bar represents the breadth of the thermal transition.

- N-CG(14);
- ▼ N-CG(14)-Ethacridin; loading with drug by swelling
- N-CG(14)-Etha(1)Dsp ; loading with drug by dispersion with prepolymer



Figur 3: Relative mass loss of the drug containing amorphous networks N-LG(18)-10 at 37 °C in a solution with phosphate buffer (pH 7,0).

- N-LG(18)-10
- ▽ N-LG(18)-10-Enoxacin
- ▲ N-LG(18)-10-Nitrofurantoin
- N-LG(18)-10-Ethacridin



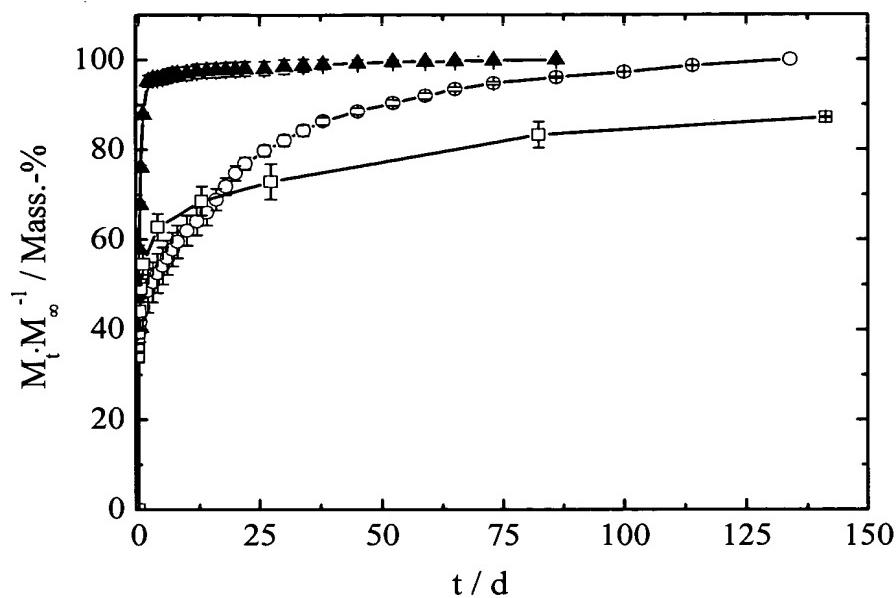
Figur 4: Drug release from amorphous networks N-LG(18)-10 at 37 °C in a solution of a phosphate buffer (pH 7,0). The surface releasing the drug amounts to 2 cm<sup>2</sup> and the thickness of the matrix is 0,2 mm.

$M_t * M_\infty^{-1}$  Mass ratio of drug released from the network

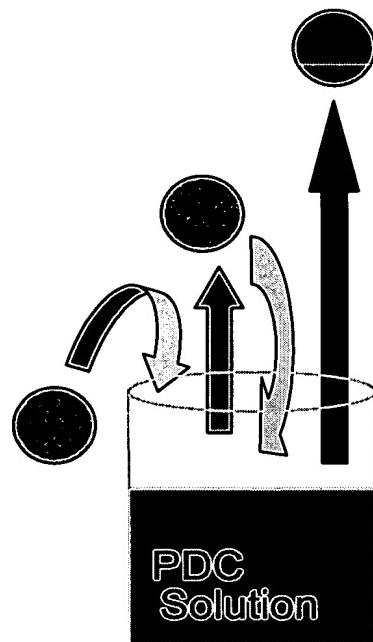
Ethacridinlactat (○)

Nitrofurantoin (▲)

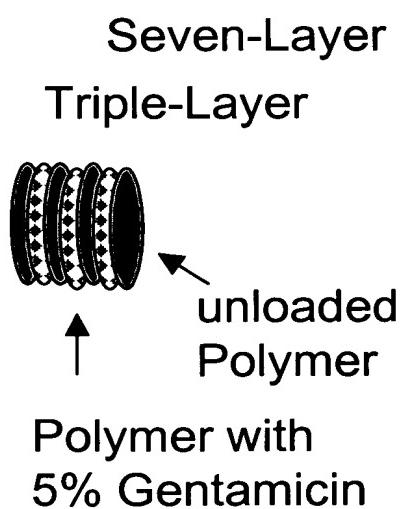
Enoxacin (□)



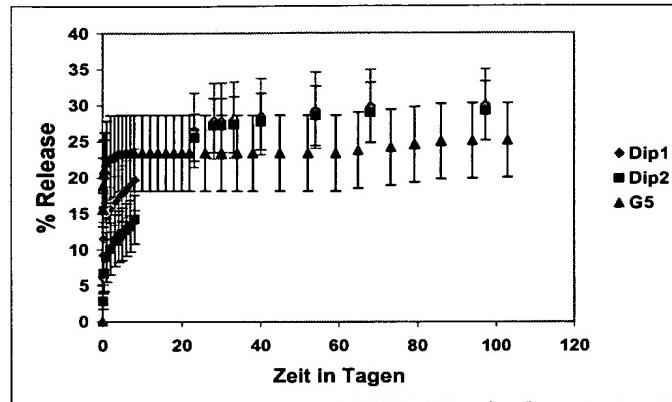
Figur 5: Drug release from crystalline networks N-CG(14)-10 at 37 °C in a solution containing a phosphate buffer (pH 7,0). The surface releasing the drug amounts to 2 cm<sup>2</sup> and the thickness of the matrix is 0,45 mm.  
 Mass ratio  $M_t^*M_\infty^{-1}$  of drug released from the network  
 Ethacridinlactat (○)  
 Nitrofurantoin (▲)  
 Enoxacin (□)



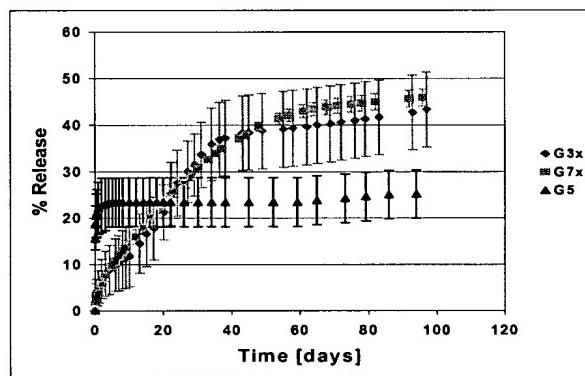
Figur 6: Method of Dip-Coating for modifying drug release systems



Figur 7: structure of layer systems



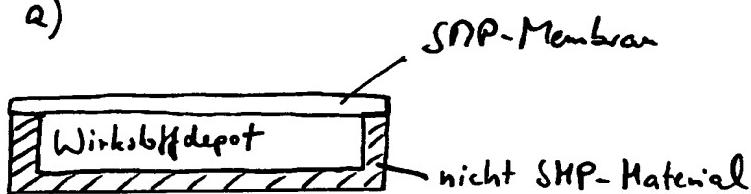
Figur 8: Modification of Gentamicin release by Dip Coating (G5 = 5 wt.% Gentamicin) from paradioxanone/ caprolactone multiblock copolymer.  
 Dip 1 dipped once into polymer solution  
 Dip 2 dipped twice into polymer solution



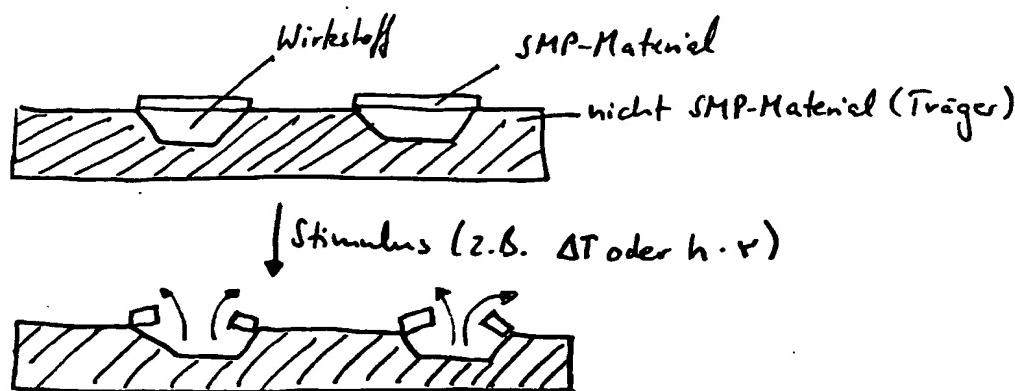
Figur 9: Modification of Gentamicin release from paradioxanone/ caprolactone multiblock copolymer due to the preparation of layer systems (G5 = 5 wt.% Gentamicin)  
 G3x 3-Layer with 5 wt.% Gentamicin in the sandwiched film  
 G7x 7-Layer with three 5 wt.% Gentamicin containing films sanwiched each bewteen pure polymer films

Fig. 10

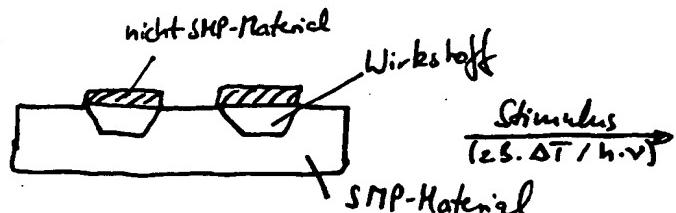
a)



b)

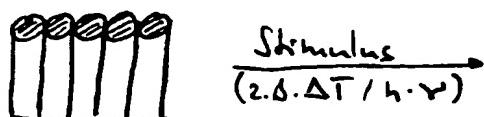


c)



d)

a sym. Membrane

Stimulus  
(z.B.  $\Delta T$  / h·v)

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